

## 2018 Current Fiscal Year Report: Nuclear Energy Advisory Committee

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### 1. Department or Agency

Department of Energy

### 2. Fiscal Year

2018

### 3. Committee or Subcommittee

Nuclear Energy Advisory Committee

### 3b. GSA Committee No.

5227

### 4. Is this New During Fiscal Year?

No

### 5. Current Charter

12/11/2017

### 6. Expected Renewal Date

12/11/2019

### 7. Expected Term Date

### 8a. Was Terminated During Fiscal Year?

No

### 8b. Specific Termination Authority

### 8c. Actual Term Date

### 9. Agency Recommendation for Next Fiscal Year

Continue

### 10a. Legislation Req to Terminate?

No

### 10b. Legislation Pending?

Not Applicable

### 11. Establishment Authority Agency Authority

### 12. Specific Establishment Authority

Secretarial memo

### 13. Effective Date

05/18/2005

### 14. Committee Type

Continuing

### 14c. Presidential?

No

### 15. Description of Committee Scientific Technical Program Advisory Board

### 16a. Total Number of Reports

1

### 16b. Report

Date

### Report Title

06/25/2018

Report to NEAC Nuclear Technology R&D Subcommittee - Meeting of May 7, 2018

### Number of Committee Reports Listed: 1

17a. Open 1 17b. Closed 0 17c. Partially Closed 0 Other Activities 0 17d. Total 1

### Meetings and Dates

#### Purpose

Public Meeting

#### Start

07/09/2018

#### End

- 07/09/2018

### Number of Committee Meetings Listed: 1

	Current FY	Next FY
18a(1). Personnel Pmts to Non-Federal Members	\$0.00	\$0.00
18a(2). Personnel Pmts to Federal Members	\$0.00	\$0.00
18a(3). Personnel Pmts to Federal Staff	\$31,712.00	\$34,825.00
18a(4). Personnel Pmts to Non-Member Consultants	\$0.00	\$0.00
18b(1). Travel and Per Diem to Non-Federal Members	\$46,966.00	\$75,000.00
18b(2). Travel and Per Diem to Federal Members	\$0.00	\$0.00
18b(3). Travel and Per Diem to Federal Staff	\$0.00	\$0.00

<b>18b(4). Travel and Per Diem to Non-member Consultants</b>	\$0.00	\$0.00
<b>18c. Other(rents,user charges, graphics, printing, mail, etc.)</b>	\$122,711.00	\$160,000.00
<b>18d. Total</b>	\$201,389.00	\$269,825.00
<b>19. Federal Staff Support Years (FTE)</b>	0.25	0.25

**20a. How does the Committee accomplish its purpose?**

Issues and potential issues are discussed in the semi-annual meetings between the Committee and the Assistant Secretary (AS) for Nuclear Energy. Issues that need to be addressed are requested by the AS and the NEAC chair and co-chair assign the issue to one of several subcommittees. The subcommittees evaluate specific issues and present their findings and recommendations to the full committee. The full committee will decide if the issues was addressed properly and submit their analysis to the AS to implement.

**20b. How does the Committee balance its membership?**

Care was taken in establishing the membership of NEAC that there would be a diversity of views, representatives from organizations throughout the country and members from diverse communities. Also taken into account was the members' understanding of the various technologies encompassed in the Office of Nuclear Energy's (NE) programs. The Office of Nuclear Energy will rotate members after the current member has served four consecutive years. The Office of Nuclear Energy believes that the rotation of members will continually inject new perspectives and opinions.

**20c. How frequent and relevant are the Committee Meetings?**

Approximately two meetings will be held each year; however, this number may increase depending on the needs and mission of the Office of Nuclear Energy. The recommendations of the NEAC are forwarded to the Secretary of Energy and he has taken action that are consistent with the Committee's recommendations for future actions.

**20d. Why can't the advice or information this committee provides be obtained elsewhere?**

NE issues are dynamic and specific to the mission of Office of Nuclear Energy. The Committee provides advice and recommendations to the Assistant Secretary. The knowledge and expertise of the Committee's members are not available within DOE, and cannot be provided more cost-effectively by any other means.

**20e. Why is it necessary to close and/or partially closed committee meetings?**

All meetings are open.

**21. Remarks**

The Office of Nuclear Energy works closely with the Committee and welcomes its input to the office.

## Designated Federal Officer

### Robert Rova Designated Federal Officer (DFO)

Committee Members	Start	End	Occupation	Member Designation
Anderson, Eric	05/18/2018	12/31/2019	Executive Director, J.P. Morgan	Special Government Employee (SGE) Member
Bear, John	05/18/2018	12/31/2019	CEO, Midcontinent Independent System Operator (MISO)	Special Government Employee (SGE) Member
Bhatnagar, Ashok	12/17/2009	12/31/2017	Retired	Special Government Employee (SGE) Member
Blee, David	05/18/2018	12/31/2019	President & CEO, U.S. Nuclear Industry Council	Special Government Employee (SGE) Member
Bunn, Matthew	12/08/2011	12/31/2019	Associate Professor, Harvard University - John F. Kennedy School of Government	Special Government Employee (SGE) Member
Cheney, Lisa	05/18/2018	12/31/2019	President, Innovative Business Group	Special Government Employee (SGE) Member
Christensen, Dana	12/17/2009	12/31/2019	National Security Technologies, LLC (NSTec)	Special Government Employee (SGE) Member
Chu, Margaret	12/08/2011	12/31/2017	Consultant	Special Government Employee (SGE) Member
Cochran, Caroline	05/18/2018	12/31/2019	Co-founder & COO, Oklo	Special Government Employee (SGE) Member
DiSibio, Ralph	05/18/2018	12/31/2019	Executive Chairman & CEO Emeritus, Kurion	Special Government Employee (SGE) Member
Faison, Jay	05/18/2018	12/31/2019	Founder & CEO, ClearPath Foundation	Special Government Employee (SGE) Member
Hintz, Donald	02/01/2009	12/31/2017	Retired - Industry Electricity Transmission & Nuclear Plant Decommissioning & Licensing	Special Government Employee (SGE) Member
Hopkins, John	05/18/2018	12/31/2019	Chairman & CEO, NuScale Power, LLC	Special Government Employee (SGE) Member
Ion, Sue	12/01/2009	12/31/2019	Chair, Energy Policy Group of the Royal Academy of Engineering	Representative Member
Isaacs, Thomas	06/07/2016	12/31/2017	Consultant and Advisor	Special Government Employee (SGE) Member
Juzaitis, Raymond	12/01/2009	12/31/2017	Consultant	Special Government Employee (SGE) Member
Kim, Seungjin	05/18/2018	12/31/2019	Purdue University School of Nuclear Engineering	Special Government Employee (SGE) Member
Kirkland, Karen	06/07/2016	12/31/2019	Professor, Texas A&M University	Special Government Employee (SGE) Member
Korsnick, Maria	06/07/2016	12/31/2019	President & CEO, NEI	Special Government Employee (SGE) Member
Kuczynski, Stephen	05/18/2018	12/31/2019	Chairman, President & CEO, Southern Nuclear Operating Company	Special Government Employee (SGE) Member
Lyons, Peter	05/18/2018	12/31/2019	Former Assistant Secretary for Nuclear Energy, DOE	Special Government Employee (SGE) Member
Matzie, Regis	12/08/2011	12/31/2019	President, RAMatzie Nuclear Technology Consulting, LLC	Special Government Employee (SGE) Member
McGarvey, Sean	05/18/2018	12/31/2019	President, North America's Building Trades Unions (NABTU)	Special Government Employee (SGE) Member
Meserve, Richard	12/08/2011	12/31/2019	President Emeritus, Carnegie Institution	Representative Member

Paperiello, Carl	12/01/2009	12/31/2019	Consultant (NRC Retired)	Special Government Employee (SGE) Member
Rempe, Joy	01/16/2014	12/31/2019	Retired, Former Fellow & Group Leader, Idaho National Laboratory	Special Government Employee (SGE) Member
Richter, Burton	02/01/2007	07/18/2018	Paul Pigott Professor, Stanford University Physical Sciences Emeritus	Special Government Employee (SGE) Member
Rothrock, Ray	06/07/2016	12/31/2019	CEO, RedSeal	Special Government Employee (SGE) Member
Rudin, Mark	06/01/2015	12/31/2017	Boise State Universtiy	Special Government Employee (SGE) Member
Sattelberger, Alfred	12/08/2011	12/31/2019	Chief Research Officer Emeritus, Argonne National Laboratory	Special Government Employee (SGE) Member
Sheahan, Brien	05/18/2018	12/31/2019	Chairman & CEO, Illionois Commerce Commission	Special Government Employee (SGE) Member
Slaybaugh, Rachel	06/07/2016	12/31/2017	computational science and engineering	Special Government Employee (SGE) Member

### Number of Committee Members Listed: 32

### Narrative Description

The Committee independently evaluates Office of Nuclear Energy's programs' effectiveness and directions, proposing to the Assistant Secretary, as warranted, new programs or changes in emphasis or direction of existing programs. Subcommittees examine relevant issues in the area of nuclear technology research and development that are proposed either by the Director or by the Committee itself. Standing subcommittees also review, on a periodic basis, how effectively the Office's programs perform against the programs' own stated goals and requirements imposed from the outside.

### What are the most significant program outcomes associated with this committee?

Checked if Applies

Improvements to health or safety	<input type="checkbox"/>
Trust in government	<input checked="" type="checkbox"/>
Major policy changes	<input type="checkbox"/>
Advance in scientific research	<input checked="" type="checkbox"/>
Effective grant making	<input checked="" type="checkbox"/>
Improved service delivery	<input type="checkbox"/>
Increased customer satisfaction	<input type="checkbox"/>
Implementation of laws or regulatory requirements	<input type="checkbox"/>
Other	<input checked="" type="checkbox"/>

### Outcome Comments

It was necessary to update the committee on the latest developments within the Office of Nuclear Energy (NE) so that the committee can give informed advice on a path forward as NE moves from research-oriented programs into deployment and implementation.

**What are the cost savings associated with this committee?**

Checked if Applies

None	<input type="checkbox"/>
Unable to Determine	<input checked="" type="checkbox"/>
Under \$100,000	<input type="checkbox"/>
\$100,000 - \$500,000	<input type="checkbox"/>
\$500,001 - \$1,000,000	<input type="checkbox"/>
\$1,000,001 - \$5,000,000	<input type="checkbox"/>
\$5,000,001 - \$10,000,000	<input type="checkbox"/>
Over \$10,000,000	<input type="checkbox"/>
Cost Savings Other	<input type="checkbox"/>

**Cost Savings Comments**

NA

**What is the approximate Number of recommendations produced by this committee for the life of the committee?**

356

**Number of Recommendations Comments**

Not an estimate but an actual count obtained by going through the reports since the committee's inception. The latest subcommittee's recommendations, during the July 2018 meeting, that were accepted by the full committee, included 15 recommendations. The recommendations included areas such as: activities related to the Versatile Test Reactor early planning stages; re-evaluate the current strategy for the Accident Tolerant Fuel program; expedite the development of business case for the Accident Tolerant Fuel program; review the scope and set strategic directions of the Advanced Manufacturing, including 3-D printing; more lab-scale research is needed before moving to engineering-scale for CoDCon; develop a set of "standardized test vehicles" for TREAT; and continued support for educational support through engagement with additional stakeholders.

**What is the approximate Percentage of these recommendations that have been or will be Fully implemented by the agency?**

40%

**% of Recommendations Fully Implemented Comments**

Of the 15 recommendations the Committee delivered to NE in FY 2018, all are still being

evaluated at this time.

**What is the approximate Percentage of these recommendations that have been or will be Partially implemented by the agency?**

50%

**% of Recommendations Partially Implemented Comments**

Not Applicable

**Does the agency provide the committee with feedback regarding actions taken to implement recommendations or advice offered?**

Yes ☒ No ☐ Not Applicable ☐

**Agency Feedback Comments**

Feedback is provided in the scheduled Committee meetings.

**What other actions has the agency taken as a result of the committee's advice or recommendation?**

Checked if Applies

Reorganized Priorities	<input checked="" type="checkbox"/>
Reallocated resources	<input checked="" type="checkbox"/>
Issued new regulation	<input type="checkbox"/>
Proposed legislation	<input type="checkbox"/>
Approved grants or other payments	<input type="checkbox"/>
Other	<input type="checkbox"/>

**Action Comments**

NA

**Is the Committee engaged in the review of applications for grants?**

No

**Grant Review Comments**

NA

**How is access provided to the information for the Committee's documentation?**

Checked if Applies

Contact DFO	<input checked="" type="checkbox"/>
Online Agency Web Site	<input checked="" type="checkbox"/>

Online Committee Web Site  
Online GSA FACA Web Site  
Publications  
Other



**Access Comments**

Information is made available to the public through announcements in the Federal Register and through postings on the NEAC website.